

REPORT
OF THE
DEPARTMENT OF HEALTH
OF THE
PANAMA CANAL
FOR THE

MONTH OF MARCH, 1916

Gift of the Panama Canal Museum

CHAS. F. MASON

1st Lieut. Colonel, Medical Corps, United States Army
Chief Medical Officer, Balboa Heights, Canal Zone

WASHINGTON
1916

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LETTER OF TRANSMITTAL.

THE PANAMA CANAL, CANAL ZONE,
HEALTH DEPARTMENT,
Balboa Heights, April 12, 1916.

Maj. Gen. GEO. W. GOETHALS,
*Governor, The Panama Canal,
Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the Department of Health for the month of March, 1916.

Very respectfully,

CHAS. F. MASON,
Chief Health Officer.

GENERAL REMARKS.

No cases of yellow fever, smallpox, or plague originated on or were brought to the Isthmus during the month.

VITAL STATISTICS.

The health of the employees remained good during the month. The number of names on the rolls for the preceding month was 33,084.

The total number of admissions to hospitals and quarters was 801, a rate of 290.53 per thousand, as compared with 292.75 per thousand for the preceding month, and 312.82 for the corresponding month of last year. This is the lowest admission rate ever attained on the Isthmus.

The total number of deaths from all causes was 20; of these, 16 died from disease, or 5.80 per thousand, as compared with 4.33 for the preceding month, and 4.91 for the corresponding month of last year.

The constantly noneffective rate was 10.77, compared with 11.12 for the preceding month, and 10.26 for the corresponding month of last year.

The total admission rate for malaria, hospitals and quarters, was 6.89, compared with 17.71 for last month, and 46.99 for the corresponding period of last year; and the total noneffective rate 0.35, compared with 0.58 for last month, and 1.11 for March, 1915. The

admission rate was less than half of that of last month, and the noneffective rate less than two-thirds, and this though the rates for last month were the lowest ever recorded on the Isthmus up to that time.

Malaria caused only 2.37 per cent of admissions and 3.66 per cent of the noneffective rate in hospitals and quarters from all causes.

The five diseases causing the highest admission rates in the order of their numerical importance were: Diseases of the digestive system, venereal diseases, diseases of the nervous system, respiratory system, and nonvenereal diseases of the genito-urinary system. These five classes of diseases caused 49 per cent of all admissions to hospitals. Less than 4 per cent of the total admission of employees to hospitals was caused by malaria during the past month.

The admission rate for typhoid fever was 0.36, compared with 0.00 for last month, and 0.00 for the corresponding month of last year.

EFFECTS OF RACE.

The admission rate to hospital and the death rate for disease for black employees were 126.43 and 5.04 per thousand, as compared with 311.13 and 10.63 for white employees.

The admission rate to hospitals and quarters for malaria was 3.78 per thousand for blacks and 26.58 for whites.

The death rate for Americans was 11.07, and the admission rate to hospitals for disease was 204.89. Only four Americans were admitted to hospitals and quarters during the month on account of malaria, giving an admission rate of 11.07 per thousand; these were all relapses.

DEPORTATIONS.

Three deportations were accomplished during the month, two employees and one nonemployee, all suffering from pulmonary tuberculosis.

CANAL ZONE.

The population of the Canal Zone is 32,336, among whom there were a total of 29 deaths; of these, 25 deaths were from disease, giving a rate of 9.28 per thousand, as compared with 8.24 for the preceding month and 8.23 for the corresponding month of last year. Of the total deaths from disease the percentage under five years of age was 27, as compared with 64 for last month.

There were 59 births reported, giving a rate of 21.89. Of these births 24 were of white and 35 of colored children. There were 4 deaths of children under one year of age, all colored, giving an infant mortality of zero for white and 114 for colored children, with a general average of 68. The percentage of stillbirths to total births was 7 per cent.

PANAMA CITY.

The population of the city is 60,778, among whom there was a total of 120 deaths; of these 118 deaths were from disease, giving a percentage of 23.29 per thousand, the same as for the preceding month, as compared with 33.39 for the corresponding period of last year. Of the total deaths from disease the percentage under five years of age was 40 per cent, compared with 44 for last month. The principal causes of death showing an increase as compared with February were: Tuberculosis of the lungs 23, compared with 18 for the preceding month; broncho-pneumonia 9, compared with 5 for last month; and congenital debility 6, compared with 3 for the month of February.

There were 289 births, giving a rate of 57.06 per thousand; the percentage of stillbirths to total births was 4 per cent.

COLON.

The population of the city is 24,693, among whom there were 43 deaths; of these 39 deaths were from disease, giving a rate of 18.95 per thousand, as compared with 26.72 for the preceding month and 18 for the corresponding month of last year. Of the total deaths from disease the percentage under five years of age was 33 per cent, the same as for the preceding month.

The principal causes of death showing an increase as compared with February were: Tuberculosis of the lungs 7, as compared with 3 for the preceding month; Bright's disease 8, as compared with 5 for last month; and broncho-pneumonia 4, as compared with 1 for the month of February.

There were 54 births reported, giving a rate of 26.25 per thousand. The infant mortality was 72 per thousand. The percentage of stillbirths to total births was 6 per cent.

HOSPITAL DIVISION.

ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 760. The per capita cost of patients in hospital proper was \$1.8965 gross and \$0.9511 net. The net per capita cost of patients in the insane asylum was \$0.3296.

BOARD OF HEALTH LABORATORY.

The following work in addition to routine has been accomplished during the month:

The breeding places of a type of mosquito with peculiar habits and life history has recently been found on the Canal Zone. This species of mosquito, known as *Mansonia titillans*, differs from other mosquitoes by passing its entire larval and pupal stage beneath the surface of the water, attached to the water lettuce (*Pistia*).

which is so abundant along the banks of the Chagres River and in the canal near Gamboa, and in Gatun Lake.

Ordinarily, mosquito larvæ live free in the water and secure their air supply at the surface of the water, but *Mansonia titillans* has breathing tubes in both the larval and pupal forms so modified as to enable it to pierce the rootlets of the Pistia and obtain its supply of oxygen directly from the plants, at some distance from the surface of the water. Their manner of living during the immature stages has been known for some time, and it has also been known for several years that the adult mosquitoes of this species were abundant in the Canal Zone, but the larval and pupal forms had never been found.

While they are found attached to the roots of the water lettuce and other water plants, thousands of these plants may be examined without revealing any larvæ, as certain other conditions are also necessary for a favorable breeding place, such as shade, shallow stagnant water, protection from winds and currents. They have also been found attached to nine other varieties of water plants and grasses.

The breeding places so far discovered by L. H. Dunn, of the board of health laboratory, are near Gamboa and in the Mandingo River, and along the shores of Gatun Lake in that vicinity.

Observations of the biology of *Dermatobia cyanisentrís* with experiments to determine if half-grown larvæ could be successfully transplanted from one animal to another have been continued.

Studies on the "soldier flies," *Hermelia illucens*, of the Stratiomyiidae family, are also under way.

The study of the occurrence of fat liver has been continued from time to time as the material became available.

An investigation was begun of the action of dilute acids and solutions of bleaching powder upon the metals most frequently encountered in plumbing.

A study of the possible economic value of the water plant Pistia has been started.

Of 3,861 anopheles mosquitoes sent to the laboratory from the zone for identification, 3,852 were albimanus, 3 pseudopunctipennis, 3 tarsimaculata, 2 argyritarsis, 1 malefactor.

Of the total of 5,399 other mosquitoes sent in, 3,089 were culex and allied species, 2,072 mansonias, 140 wyomyia, 98 stegomyia.

INSANE DEPARTMENT.

During the month there were 20 admissions, 18 discharges, and 4 deaths. Included in these figures are 3 retransfers from Ancon Hospital, 6 transfers to Ancon Hospital for surgical treatment, and 1 death in Ancon Hospital of patient that had been transferred from this hospital for surgical treatment.

The large autoclave for sterilizing milk bottles and utensils was put into operation. Bacterial examination proves that all bottles and utensils used in handling milk are sterile. The average bacterial content of the milk for the week ending March 23 (the last received) was only 9,226 per c. c.

Extended improvements have been made in the kitchen, the new carpenter shop has been started, and authority has been granted for constructing a concrete compost pit. A great amount of manure is available which can be used to advantage on the farm.

On March 1 the position of assistant farm manager was authorized, and the new assistant reported for duty. This will add greatly to the efficiency of the work done at the farm and dairy.

During the month the entire herd of cattle was tested by means of the tuberculin test for tuberculosis.

The general health of the patients and cripples remains good.

CHRONIC WARD.

There were 29 chronic and incurable patients constantly cared for during the month. The cost per patient per day was \$0.2208.

Detailed statistics are shown in Table XIII.

COLON HOSPITAL.

The average number of employees constantly sick was 21.65. The average number of days' treatment per employee was 14. The per capita cost of patients was \$2.85 gross and \$1.58 net.

Detailed statistics are shown in Table XIV.

PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 57. There were no admissions, deaths, or discharges during the month. Detailed statistics are shown in Table XV.

SANTO TOMAS HOSPITAL.

During the month a total of 1,300 patients were treated, 23 less than the preceding month. The daily average of patients in the hospital was 445, as compared with 471 for February, and the total number of days' treatment was 13,803, as compared with 13,669 for the preceding month. A total of 79 deaths occurred, with tuberculosis of the lungs, congenital debility, and pneumonia the chief causes, in the order named.

Detailed statistics are shown in Table XVI.

DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Balboa, with an average weekly percentage of 0.05. No malaria cases were reported from the following districts during the past month: Pedro Miguel, Paraiso, and Culebra-Empire.

SANITATION.

CANAL ZONE.

During the last week in March no employee residing in the Canal Zone was admitted to sick report with malarial fever. This has not occurred before since the American occupation of the zone. During the same week there were no cases among the employees living in Colon, and only two among those living in Panama.

The general health of employees during the month has been good.

The following communicable diseases were reported during the month:

Measles.....	14	Malaria fever.....	55
Typhoid fever.....	1	Tuberculosis.....	10
Dysentery.....	5	Erysipelas.....	2
Chicken pox.....	6	Gonorrheal ophthalmia.....	1
Diphtheria.....	2	Pneumococcic meningitis.....	0

PANAMA.

Mosquito breeding in the swimming pool of the National Institute Gymnasium was noted, and specimens of pupa and larva taken therefrom were identified as stegomyia. The pool is about 25 by 60 feet in size and $3\frac{1}{2}$ to 6 feet in depth. Its sides and bottom are tile-covered, and the pool is supplied from the city mains and discharges into the city sewers.

The larva and pupa were noted in large numbers, and were to be found only at the edges of the pool. The occurrence of the breeding in such a large "container" is unusual, and this is the first time that it has been noted by this office. It is accounted for by the fact that the institute is closed for the holidays (summer vacation), and the surface of the pool remains undisturbed for several days at a time, as no one uses the pool for swimming.

During the month 1,371 rats were caught from various parts of the city and were sent to Ancon Laboratory for examination. Of this number 789 were taken at the public dump, which exceeds the catch for the rest of the city. For some time it has been known that our public dump was the greatest producer of flies and mosquitoes, as compared to any other district in the city, but the degree of rat infestation existing there was not known. Very extensive trapping was carried on for the latter half of the month, with the results noted above.

The following infectious diseases were reported to this office during the month:

Tuberculosis, pulmonary.....	30	Pneumococcic meningitis.....	2
Tuberculosis, other forms.....	5	Chicken pox.....	9
Diphtheria.....	3	Measles.....	1

COLON.

Dry fill of the swampy area between Mount Hope and Colon, which has been in progress for several months, was completed, and a new system of drains is now being installed. There have been no other changes of importance in the district during the month.

The following infectious diseases were reported during the month:

Chicken pox.....	2	Measles.....	5
Diphtheria.....	2	Mumps.....	1
Malaria.....	1	Tuberculosis.....	6

QUARANTINE SERVICE.

On the Atlantic side, 36 inspections of sailing vessels were made for the purpose of ascertaining if breeding places for mosquitoes existed on board; none were found, there having been a marked improvement in this respect during the past few months. Fifty-four inspections of ships alongside were made for the purpose of ascertaining if antiplague precautions were being carried out. The usual quarantine and immigration regulations were enforced, the police and customs officers aiding in a satisfactory manner.

On the Pacific side surveys were made during the month for additional sidewalks and for the grading of the unfinished portion of the reservation. Considerable difficulty is being encountered in the attempt to encourage the growth of lawn grass and plants owing to the very poor quality of the soil.

Plague and yellow fever conditions on the west coast of South America show little improvement. Plague is reported as increasing in the various departments of Peru and in Guayaquil. Yellow fever is still endemic in Buenaventura and the region immediately interior to the town.

No quarantinable diseases were received at our ports during the month.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

ABSOLUTE NUMBERS.

	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly non-effective.
March, 1916.									
White.....	4,514	116	95	21	4	4		2,842	91.68
Colored.....	28,570	301	195	106	16	12	4	8,198	264.44
Total.....	33,084	417	290	127	20	16	4	11,040	356.12
February, 1916.									
White.....	4,474	137	111	26				2,557	88.16
Colored.....	26,023	287	206	81	16	11	5	7,282	251.10
Total.....	30,497	424	317	107	16	11	5	9,839	339.26
March, 1915.									
White.....	4,748	189	163	26	1		1	2,919	94.17
Colored.....	29,470	274	170	104	17	14	3	7,960	256.78
Total.....	34,218	463	333	130	18	14	4	10,879	350.95

PROPORTIONATE NUMBERS.¹

<i>March, 1916.</i>									
White.....	4,514	311.13	254.80	56.33	10.63	10.63	.....	.....	20.31
Colored.....	28,570	126.43	81.90	44.53	6.72	5.04	1.68	.....	9.26
Total.....	33,084	151.25	105.19	46.06	7.25	5.80	1.45	.....	10.77
<i>February, 1916.</i>									
White.....	4,474	367.46	297.72	69.74	.....	.....	.....	.....	19.70
Colored.....	26,023	132.34	94.99	37.35	7.38	5.07	2.31	.....	9.46
Total.....	30,497	166.83	124.73	42.10	6.29	4.33	1.96	.....	11.12
<i>March, 1915.</i>									
White.....	4,748	477.67	411.96	65.71	2.53	.....	2.53	.....	19.84
Colored.....	29,470	111.57	69.22	42.35	6.92	5.70	1.22	.....	8.72
Total.....	34,218	162.37	116.78	45.59	6.31	4.91	1.40	.....	10.26

¹ Annual average per thousand.

TABLE I.—DEATHS OF RESIDENTS OF THE CITIES OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

Place.	Popula- tion.	Deaths.			Annual average per 1,000.		
		Total.	Dis- ease.	Exter- nal causes.	Total.	Dis- ease.	Exter- nal causes.
<i>March, 1916.</i>							
Panama.....	60,778	120	118	2	23.69	23.29	0.40
Colon.....	24,693	43	39	4	20.89	18.95	1.94
Canal Zone.....	32,336	29	25	4	10.76	9.28	1.48
Total.....	117,807	192	182	10	19.56	18.54	1.02
<i>February, 1916.</i>							
Panama.....	60,778	125	118	7	24.67	23.29	1.38
Colon.....	24,693	58	55	3	28.18	26.72	1.46
Canal Zone.....	32,026	24	22	2	8.99	8.24	.75
Total.....	117,497	207	195	12	21.14	19.91	1.23
<i>March, 1915.</i>							
Panama.....	60,373	175	168	7	34.78	33.39	1.39
Colon.....	29,331	47	44	3	19.23	18.00	1.23
Canal Zone.....	33,519	25	23	2	8.95	8.23	.72
Total.....	123,233	247	235	12	24.05	22.88	1.17

TABLE II.—DEATHS BY AGE, COLOR, AND SEX.

	White.			Colored.			Yellow.			Totals.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year.....	1	2	3	16	24	40	.....	1	1	17	27	44
1 to 4 years.....	.....	1	1	13	10	23	.....	1	1	13	12	25
5 to 10 years.....	1	1	2	.....	1	1	.....	.....	.....	1	2	3
11 to 20 years.....	1	.....	1	5	3	8	.....	.....	.....	6	3	9
21 to 30 years.....	2	.....	2	23	14	37	.....	.....	.....	25	14	39
31 to 40 years.....	5	.....	5	21	12	33	.....	.....	.....	26	12	38
41 to 50 years.....	.....	1	1	6	6	12	1	.....	1	7	7	14
51 to 60 years.....	2	.....	2	8	1	9	.....	.....	.....	10	1	11
61 to 70 years.....	1	1	2	2	2	4	.....	.....	.....	3	3	6
71 to 80 years.....	.....	1	1	.....	1	1	.....	.....	.....	2	.....	2
81 to 90 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
91 to 100 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Not stated.....	.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	1
Total.....	13	7	20	95	74	169	1	2	3	109	83	192

TABLE III.—DEATHS BY NATIONALITY.

Nations.	Employees.	Non-employees.	Total.
Antigua.....		1	1
Barbados.....	4	25	29
Bolivia.....		1	1
China.....		3	3
Colombia.....		10	10
Costa Rica.....	1	2	3
Demerara.....		1	1
France.....		1	1
Grenada.....	1	1	2
Guadeloupe.....		1	1
Haiti.....		1	1
Italy.....		1	1
Jamaica.....	7	51	58
Martinique.....		4	4
Montserrat.....	1		1
Panama.....	1	54	55
Spain.....		2	2
St. Lucia.....		6	6
St. Vincent.....	1	2	3
Trinidad.....		1	1
United States.....	4	3	7
Venezuela.....		1	1
Total.....	20	172	192

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,108):		
Disease.....	3	8.76
External causes.....	0	
All causes.....	3	8.76
White women and children from the United States (3,324):		
Disease.....	1	3.61
External causes.....	0	
All causes.....	1	3.61
White employees and their families from the United States (7,432):		
Disease.....	4	6.46
External causes.....	0	
All causes.....	4	6.46
Total number of Americans on the Canal Zone (13,940):		
Disease.....	4	3.44
External causes.....	0	
All causes.....	4	3.44

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD COMPANY.

Causes of death.	White.	Colored.	Total.
<i>Diseases.</i>			
Aneurysm, ruptured, thoracic.....		1	1
Epithelioma of esophagus.....		1	1
Lobar pneumonia.....	1	1	2
Nephritis.....		4	4
Organic heart disease.....		1	1
Streptococcic cellulitis and abscesses of perineum and adjacent structures.....	1		1
Acute alcoholism.....	1		1
Disseminated tuberculosis.....	1	1	2
Acute miliary tuberculosis.....		1	1
Tuberculosis of psoas muscle and pelvic lymph nodes.....		1	1
Syphilis, secondary.....		1	1
<i>External causes.</i>			
Drowning, accidental.....		3	3
Traumatism by fall.....		1	1
Total.....	4	16	20

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Diphtheria and croup.....		1		1
Purulent infection and septicemia.....	1			1
Incipient septicemia.....	1			1
Tetanus.....	1	1		2
Pellagra.....	1			1
Tuberculosis of the lungs.....	23	7	3	33
Acute miliary tuberculosis.....	1			1
Tuberculosis meningitis.....	2			2
Abdominal tuberculosis.....	1			1
Tuberculosis of other organs.....			1	1
Disseminated tuberculosis.....	4		2	6
Syphilis, secondary.....	1			1
Syphilis, tertiary.....	2			2
Cancer and other malignant tumors of the stomach and liver.....	1			1
Cancer and other malignant tumors of the peritoneum, intestines, rectum.....	1			1
Alcoholism, acute.....			1	1
<i>Diseases of the nervous system and of the organs of special sense.</i>				
Encephalitis.....	1			1
Simple meningitis.....	1			1
Pneumococcus meningitis.....	2			2
Cerebral hemorrhage, apoplexy.....	5	1		6
Convulsions of infants (under 5 years of age).....	1		1	2
<i>Diseases of the circulatory system.</i>				
Organic diseases of the heart.....	2	2	1	5
Aneurysm.....			1	1
Arteriosclerosis.....	1	2		3
Hemorrhage; other diseases of the circulatory system.....	1			1
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.....	2	4		6
Chronic bronchitis.....			1	1
Broncho-pneumonia.....	9	4	3	16
Pneumonia (unqualified).....	2	1		3
Lobar pneumonia.....	2	1	2	5
Pulmonary congestion, pulmonary apoplexy.....	1			1
Gangrene of the lungs.....	1			1
Asthma.....	1			1
<i>Diseases of the digestive system.</i>				
Ulcer of the stomach.....	1			1
Acute gastritis.....	1			1
Acute indigestion.....		1		1
Colitis.....	2	1		3
Diarrhea and enteritis (under 2 years).....	12	1	1	14
Colitis.....		1		1
Hernia, intestinal obstructions.....	1			1
Intestinal obstruction.....	1			1
Other diseases of the intestines.....			1	1

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
<i>Nonvenereal diseases of the genito-urinary system and annera.</i>				
Acute nephritis.....	1			1
Bright's disease (chronic nephritis).....	7	8	2	17
Pyelo-nephrosis.....			1	1
Cystitis.....	1			1
<i>The puerperal state.</i>				
Puerperal septicemia.....			1	1
<i>Diseases of the skin and of the cellular tissue.</i>				
Carbuncle.....	1			1
<i>Diseases of early infancy.</i>				
Congenital debility, icterus, and sclerema.....	1			1
Congenital debility.....	6			6
Malnutrition.....	7		3	10
<i>Affections produced by external causes.</i>				
Accidental drowning.....	1	2	3	6
Traumatism by fall.....			1	1
Traumatism by landslides.....		1		1
Homicide by cutting or piercing instruments.....		1		1
Other external violence.....	1			1
<i>Ill-defined diseases.</i>				
Cause of death not specified or ill defined.....	4	3		7
Total.....	120	43	29	192
Stillbirths.....	13	3	4	20
Grand total.....	133	46	33	212

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>General diseases.</i>												
Typhoid fever.....			1					1				
Relapsing fever.....								1				
Malarial fever, estivo- autumnal.....	1	3	5				2		1			
Malarial fever, tertian.....		1	2				2	1	1			
Malarial fever, clinical.....		2					21	1				
Vaccinia.....								1				
Measles.....		2	1				3	3	2			
Diphtheria and croup.....												
Influenza.....			11				2	4	2			
Dysentery, entamebic.....			1					1				
Dysentery, bacillary.....												1
Leprosy.....												
Erysipelas.....								1				
Dengue.....								1				
Chicken pox.....			6						1			
Yaws.....									1			
Tetanus.....			1									
Pellagra.....									2			
Tuberculosis of the lungs.....		1	5			1		1	7			3
Acute miliary tuberculosis.....			2			1						
Abdominal tuberculosis.....			1									
Pott's disease.....									1			
Tuberculosis of other organs.....						1						
Disseminated tuberculosis.....			1	1		1						1
Syphilis, primary.....								1				
Syphilis, secondary.....			6				1					1
Syphilis, tertiary.....		1	9				1	1	4			
Syphilis, hereditary.....									1			
Syphilis, period not stated.....			5						1			
Gonococcus infection.....							1	1				
Gonorrhea.....	1		11				9	3				
Gonorrheal bubo.....			1									
Gonorrheal orchitis and epididymitis.....							1					
Gonorrheal ophthalmia.....			3									
Soft chancre.....	1	1	10				5	1				
Adenitis chancreoidal.....			3				2	1				
Cancer and other malignant tumors of the buccal cavity.....								1				
Cancer and other malignant tumors of the stomach and liver.....							1					

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.		Black.	Americans.		Black.	Soldiers.		Black.	Soldiers.		Black.
	Americans.	Europeans.		Americans.	Europeans.		Soldiers.	Others.		Soldiers.	Others.	
<i>General diseases—Contd.</i>												
Cancer and other malignant tumors of the peritoneum, intestines, rectum.									1			1
Cancer and other malignant tumors of the female genital organs.									1			
Cancer and other malignant tumors of other organs and of organs not specified.							1					
Other tumors (tumors of the female genital organs excepted).									1			
Chronic rheumatism and gout.			1									
Diabetes.								1				
Exophthalmic goiter.	1											
Anemia, secondary, cause not determined.			1						2			
Alcoholism, acute.							2					
Alcoholism, chronic.												
Alcoholic psychosis.			1					2				
Other chronic occupation poisonings.				1								
<i>Diseases of the nervous system and of the organs of special sense.</i>												
Simple meningitis.									1			
Lateral sclerosis.								1				
Cerebral hemorrhage, apoplexy.								1				
Softening of the brain.								1				
General paralysis of the insane.										2		
Other forms of mental alienation.										4		
Dementia precoc.							1	2		4		1
Epilepsy.												
Neuritis.	3		3				1	1				
Other diseases of the nervous system.										2		
Neurasthenia.	1						4	1				
Diseases of the eyes and their annexa.	2	1	18				4	2	3			
Diseases of the ears.							1	2	1			

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions			Deaths.			Admissions			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the circulatory system.</i>												
Organic diseases of the heart.....	1		3					3			1	
Diseases of the arteries, atheroma, aneurism, etc.												
Arteriosclerosis.....										1		
Hemorrhoids.....	1	1	2				5					
Varicocele.....	1						2		1			
Diseases of the lymphatic system (lymphangitis, etc.).....			1				1					
Lymphadenitis (nonvenereal).....			6				6	3				
<i>Diseases of the respiratory system.</i>												
Diseases of the nasal fossæ ..	1		1				3	2				
Diseases of the thyroid body.....							1					
Acute bronchitis.....	1		2				1	10		1		
Chronic bronchitis.....			3						2		1	
Broncho-pneumonia.....			1									
Lobar pneumonia.....		1	3		1	1			2			1
Pleurisy.....		1							2			
Empyema.....			1									
Asthma.....			1									
Other diseases of the respiratory system (tuberculosis excepted).....								1				
Abscess of lungs.....							1					
<i>Diseases of the digestive system.</i>												
Diseases of the teeth and gums.....			1							1		
Diseases of the pharynx.....								2		2		
Pharyngitis.....			1									
Follicular tonsillitis.....	7	1	4				6	7	8			
Diseases of the œsophagus.....								1				
Ulcer of the stomach.....	3						2	1				

IN THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.
												1	3			3					1		
1			1									1	1										
			1									1	1	3		5		1					
												1			2	1							
						1									2								
													6		6	3							
												1	1		3	2							
			1					1				1	3		1	10	2						
			2				1					3				1	2		1				
			1		2							1	4	1	3		2				1		
						1						1				1	2						
												1											
												1											
																1							
													1										
																2					1		
													1										
												7	1	4		6	7	8					
																1							
												3				2	1						

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Nonvenereal diseases of the genito-urinary system and annexa—Continued.</i>												
Stricture of the urethra, nonvenereal.....			2				2		2			
Chronic prostatitis.....			1				1					
Hypertrophy of prostate.....												
Nonvenereal diseases of the male genital organs.....	1	1	2				2	1	3			
Hydrocele.....			1									
Lymph scrotum and varix.....			1									
Uterine hemorrhage (non-puerperal).....								1				
Uterine tumor (noncancerous).....										2		
Other diseases of the uterus.....	1							5		5		
Metritis.....										2		
Cysts and other tumors of the ovary.....										1		
Salpingitis and other diseases of the female genital organs.....								2	4			
Nonpuerperal diseases of the breast (cancer excepted).....	1							1				
<i>The puerperal state.</i>												
Normal labor.....								18	6			
Accidents of pregnancy.....								2				
Hyperemesis gravidarum.....								1				
Abortion.....								1				
Puerperal hemorrhage.....								2				
Other accidents of labor.....								3	1			
Puerperal diseases of the breast.....									1			

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the skin and of the cellular tissue.</i>												
Carbuncle.....		1										
Acute abscess.....								1	1			1
Phlegmon and cellulitis.....	1		5					4				
Dhobie itch.....	2											
Ulcer of the skin.....												
Ingrowing nail.....	2						2					
Other diseases of the skin and annexa.....			2				4	3	1			
<i>Diseases of the bones and of the organs of locomotion.</i>												
Diseases of the bones (tuberculosis excepted).....			4				2	1				
Osteomyelitis.....							1					
Periostitis.....									1			
Disease of the joints (tuberculosis and rheumatism excepted).....									1			
Ankylosis.....								1				
Arthritis.....							1	1	1			
Other disease of the organs of locomotion.....	3	1	1				2					
<i>Malformations.</i>												
Congenital malformations (stillbirth not included).....	1							1	1			
<i>Diseases of early infancy.</i>												
Newborn child.....								21	5			
Premature birth.....									1			
Suicide by cutting or piercing instruments.....			1									
Poisoning by food.....		1	3				2					
Other acute poisonings.....		1							1			
Burns (conflagration excepted).....			2									
Traumatism by cutting or piercing instruments.....			6						2			
Traumatism by fall.....	1		4			1	3					

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions			Deaths.			Admissions			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of early infancy—Continued.</i>												
Traumatism in mines and quarries.....			3									
Traumatism by machines.....			3									
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....			18					1	1		1	
Railroad traumatism.....	2		7									
Traumatism by landslides.....			2									
Injuries by animals.....			1									
Starvation.....	1											
Fracture: (cause not specified).....	2		3				3	1				
Dislocations.....			2				1	1				
Sprains.....			1									
Other external violence.....	11	1	30				6	4				
<i>Ill-defined diseases.</i>												
Infections of undetermined origin.....			1				5					
No disease.....	1		3				2	14	9			
Total.....	79	22	264	3	1	8	146	205	132		4	10

IN THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.			Admissions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
		1												3									
													4										
		4					1						22					2	1			1	
		2											7										
		1											4										
													2										
												1											
		5					2						8					5	1				
													2					1	1				
1	1	3										1	1										
							1					11	1	30				6	5				
							2																
													1					5	2				
													3					2	14	9			
13	2	37				2	7	30	22			92	24	301	3	1	10	153	235	154		4	10

TABLE VIII.—CONSOLIDATED

[A=white Americans; F=white

	Remaining Mar. 1.			Admitted.			Died.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.
ANCON HOSPITAL.									
Panama Canal employees.....	24	16	120	72	20	188	3	.....	6
Panama Railroad employees.....	6	4	88	7	1	75	.....	1	3
Panama pay.....	.....	.....	.....	.....	.....	5	.....	.....	1
Other pay.....	87	20	45	267	51	96	2	1	3
Charity.....	1	2	36	22	5	19	.....	.....	3
Total.....	118	42	289	368	77	383	5	2	16
<i>Corozal Hospital (insane).</i>									
Panama Canal employees.....	.....	3	11	.....	1	.....	.....	.....	.....
Panama Railroad employees.....	.....	.....	3	.....	.....	1	.....	.....	.....
Panama pay.....	2	23	167	.....	3	8	.....	1	1
Other pay.....	9	2	5	1	2	1	.....	.....	1
Charity.....	4	4	46	.....	.....	3	.....	.....	.....
Total.....	15	32	232	1	6	13	.....	1	2
Grand total.....	133	74	521	369	83	396	5	3	18
<i>Corozal Farm.</i>									
Panama Canal employees.....	.....	10	41	.....	1	1	.....	.....	.....
<i>Chronic ward.</i>									
Charity.....	.....	.....	28	.....	.....	3	.....	.....	.....
COLON HOSPITAL.									
Panama Canal employees.....	1	3	8	11	2	17	.....	.....	1
Panama Railroad employees.....	5	.....	7	2	.....	20	.....	.....	1
Panama pay.....	.....	.....	1	1	.....	12	.....	.....	.....
Other pay.....	4	4	4	28	6	7	.....	.....	.....
Charity.....	.....	.....	.....	2	.....	3	.....	.....	.....
Total.....	10	7	20	44	8	59	.....	.....	2
PALO SECO LEPER ASYLUM.									
Panama Canal employees.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Panama pay.....	.....	2	34	.....	.....	.....	.....	.....	.....
Charity.....	.....	2	18	.....	.....	.....	.....	.....	.....
Total.....	.....	4	53	.....	.....	.....	.....	.....	.....

HOSPITAL REPORT.

foreigners; B=blacks.]

Discharged.			Transferred.			Remaining Mar. 31.			Average number constantly sick.			
									White.		Black.	Total.
A.	F.	B.	A.	F.	B.	A.	F.	B.	American.	Foreign		
70	24	155	....	1	1	23	11	146	31.71	13.81	138.80	184.32
7	4	89	....		1	6	....	70	4.10	1.19	75.10	80.39
					2			2			1.06	1.06
242	41	88	1	2	1	109	27	49	103.58	21.29	50.55	175.42
14	5	15	....	....	3	9	2	34	5.19	1.84	33.42	40.45
333	74	347	1	3	8	147	40	301	144.58	38.13	298.93	481.64
							4	11		3.71	11.00	14.71
								4			3.26	3.26
1	1	3			5	1	24	166	1.68	24.68	166.16	192.52
5		1				5	4	4	5.97	2.97	4.71	13.65
						4	4	48	4.00	4.00	46.23	54.23
6	1	5			5	10	36	233	11.65	35.36	231.36	278.37
339	75	352	1	3	13	157	76	534	156.23	73.49	530.29	760.01
							11	12		10.61	41.55	52.16
		1						30			29.00	29.00
8	3	14	....	1	6	4	1	4	3.19	2.45	5.96	11.60
6		16	....		1	1		9	2.35		7.70	10.05
			1		13				.03		.64	.67
20	5	7	6	2	2	6	3	2	7.90	3.19	3.12	14.21
1					2	1		1	.61		.45	1.06
35	8	37	7	3	24	12	4	16	14.08	5.64	17.87	37.59
								1			1.00	1.00
							2	34		2.00	34.00	36.00
							2	18		2.00	18.00	20.00
							4	53		4.00	53.00	57.00

TABLE VIII.—CONSOLIDATED

	Remaining Mar. 1.			Admitted.			Died.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.
GRAND TOTAL.									
Panama Canal employees.....	25	32	181	83	24	203	3	.....	7
Panama Railroad employees.....	11	4	98	9	1	96	.....	1	4
Panama pay.....	2	25	202	1	3	25	.....	1	2
Other pay.....	100	26	54	296	59	104	2	1	4
Charity.....	5	8	128	24	5	28	.....	.....	3
Total.....	143	95	663	413	92	459	5	3	20

Number of employees remaining in hospitals:

White.....	61
Black.....	287
Total.....	348

HOSPITAL REPORT—Continued.

Discharged.			Transferred.			Remaining, Mar. 31.			Average number constantly sick.			
									White.		Black.	Total.
A.	F.	B.	A.	F.	B.	A.	F.	B.	American.	Foreign.		
78	27	169	....	2	7	27	27	204	34.90	30.58	198.31	263.79
13	4	105	....	....	2	7	....	83	6.45	1.19	86.06	93.70
1	1	3	1	....	20	1	26	202	1.71	26.68	201.86	230.25
267	46	96	7	4	3	120	34	55	117.45	27.45	58.38	203.28
15	5	17	....	....	5	14	8	131	9.80	7.84	127.10	144.74
374	83	390	8	6	37	169	95	675	170.31	93.74	671.71	935.76

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS.

	Remain- ing Mar. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Remain- ing Mar. 31.		Days lost.		
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	Total.
Ancon.....	1	...	130	...	...	...	125	...	2	...	4	...	285	...	285
Balboa.....	8	3	79	43	...	...	74	20	6	24	7	2	250	82	332
Pedro Mi- guel.....	1	...	15	1	...	...	15	1	...	...	1	...	57	4	61
Paraiso.....	1	...	19	5	...	...	15	5	2	...	3	...	65	15	80
Gamboa.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gatun.....	...	...	9	5	...	...	8	4	...	1	1	...	27	31	58
Colon.....	6	12	52	38	...	...	54	32	...	...	4	18	219	538	757
Total..	17	15	304	92	...	...	291	62	10	25	20	20	903	670	1,573

ALL CASES TREATED BUT NOT EXCUSED.

	Employees.			Nonemployees.			Total.		
	W.	B.	Total.	W.	B.	Total.	W.	B.	Total.
Ancon.....	2,394	3,648	6,042	1,548	2,347	3,895	3,942	5,995	9,937
Balboa.....	3,625	4,082	7,707	1,098	1,325	2,423	4,723	5,407	10,130
Pedro Mi- guel.....	575	976	1,551	688	319	1,007	1,263	1,295	2,558
Paraiso.....	1,043	2,354	3,397	631	1,035	1,666	1,674	3,389	5,063
Gamboa.....	27	123	150	16	369	385	43	492	535
Gatun.....	290	1,345	1,635	647	1,279	1,926	937	2,624	3,561
Colon.....	949	2,462	3,411	682	828	1,510	1,631	3,290	4,921
Total..	8,903	14,990	23,893	5,310	7,502	12,812	14,213	22,492	36,705

CONSOLIDATED ADMISSIONS REPORT.

	White.	Black.	Total.
Total admissions to hospitals, excluding Corozal farm and chronic ward.....	504	455	959
Total admissions of employees to quarters.....	304	92	396
Total.....	808	547	1,355
Less number of patients transferred between hospitals, and from quarters to hospitals, whose admissions are duplicated in above figures.....	22	49	71
Net admissions to hospitals and quarters.....	786	498	1,284
Net admissions of employees to hospitals and quarters.....	418	383	801
Annual average per thousand of admissions of employees to hospitals and quarters.....	1,111. 21	160. 87	290. 53

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.
CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Diseases.	Pana- ma.	Colon.	Canal Zone.	Total.
Measles.....	1	5	14	20
Typhoid fever.....			1	1
Annual average per 1,000.....			.37	
Mumps.....		1		1
Dysentery.....			5	5
Chicken pox.....	9	2	6	17
Diphtheria.....	3	2	2	7
Malaria fever.....		1	55	56
Tuberculosis.....	35	6	10	51
Erysipelas.....			2	2
Diarrhea.....			13	13
Gonorrheal ophthalmia.....			1	1
Pneumococcic meningitis.....	2			2

TABLE X.—NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	54.52	228.16	282.68
Colon Hospital.....	7.99	13.66	21.65
Palo Seco Leper Asylum.....		1.00	1.00
Total.....	62.51	242.82	305.33
Quarters:			
Ancon.....	9.19		9.19
Balboa.....	8.06	2.65	10.71
Pedro Miguel.....	1.84	.13	1.97
Paraiso.....	2.10	.48	2.58
Gatun.....	.87	1.00	1.87
Colon.....	7.06	17.36	24.42
Total.....	29.12	21.62	50.74
	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	62.51	29.17	91.68
Colored.....	242.82	21.62	264.44
Total.....	305.33	50.79	356.12
Average number of employees constantly sick per 1,000:			
White.....	13.85	6.45	20.31
Colored.....	8.50	.76	9.26
Total.....	9.23	1.54	10.77

TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEE.

	White.	Black.	Total.
Hospitals:			
Ancon.....	14.7	22.3	20.0
Colon.....	19.0	11.5	14.0
Quarters:			
Ancon.....	2.3	.0	2.3
Balboa.....	2.9	1.9	2.6
Pedro Miguel.....	3.9	4.0	3.9
Paraiso.....	4.1	3.0	3.8
Gatun.....	3.4	6.0	4.5
Colon.....	4.9	23.0	11.6

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH EXPENDITURES.

	February, 1916.	January, 1916.	February, 1915.
Administration: Chief health office.....	\$531.71	\$915.49	\$479.44
Hospital division:			
Ancon Hospital.....	24,867.92	26,097.49	32,145.64
Board of health laboratory.....	1,746.25	1,952.68	
Corozal farm.....	5,758.74	5,635.52	1,022.42
Chronic ward.....	194.78	225.62	214.07
Colon hospital.....	3,665.76	3,371.90	2,820.18
Palo Seco Leper Asylum.....	1,639.30	1,651.33	1,906.95
Santo Tomas Hospital.....	757.00	981.63	857.37
Medical storehouse.....	1,016.41	949.96	912.02
	39,646.16	40,776.13	39,978.65
District dentists.....		12.23	15.72
Dispensaries:			
Naos Island.....			63.87
Balboa.....	1,068.21	1,074.58	1,099.83
Corozal.....	(Cr.) 90.89		578.51
Pedro Miguel.....	461.72	436.43	475.65
Paraiso.....	441.20	576.01	583.51
Culebra.....			457.63
Gamboia.....	138.71	116.14	135.19
Gatun.....	789.23	669.50	523.38
Toro Point.....	236.83		13.85
	3,045.01	2,884.88	3,948.14
Sanitary division:			
General inspector.....	50.00	50.00	
Health office, Panama.....	3,099.03	5,565.03	2,613.56
Street cleaning.....	4,043.71	4,217.63	4,171.71
Health office, Colon.....	2,930.29	2,959.79	1,786.33
Street cleaning.....	2,284.34	2,395.11	1,811.71
Zone sanitation—			
Ancon.....	5,797.01	1,646.25	1,907.96
Balboa.....	2,812.59	1,868.03	557.30
Corozal.....	598.35	963.14	1,677.09
Pedro Miguel.....	3,560.80	3,284.91	787.83
Paraiso.....			1,001.13

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH
EXPENDITURES—Continued.

	February, 1916.	January, 1916.	February, 1915.
Sanitary division—Continued.			
Zone sanitation—Continued.			
Culebra.....			\$810. 59
Frijoles.....	\$84. 16	\$66. 74	123. 01
Gatun.....	4,487. 09	2,471. 45	819. 84
Cristobal and Mount Hope.....	2,524. 62	2,287. 85	886. 29
Total.....	32,271. 99	27,775. 93	18,954. 39
Quarantine division:			
Chief quarantine office.....	116. 58	206. 00	117. 26
Balboa-Panama.....	1,870. 30	1,969. 95	1,498. 87
Cristobal-Colon.....	2,570. 01	2,801. 42	2,263. 61
Total.....	4,556. 89	4,977. 37	3,879. 74
RECAPITULATION.			
Chief health office.....	531. 71	915. 49	479. 44
Hospital division.....	33,646. 16	40,776. 13	39,978. 65
Dispensaries.....	3,045. 01	2,884. 88	3,948. 14
Sanitary division.....	32,271. 99	27,775. 93	18,954. 39
Quarantine division.....	4,556. 89	4,977. 37	3,879. 74
Total.....	80,051. 76	77,323. 80	67,240. 36

February, 1916, last available figures.

TABLE XIII.—ANCON HOSPITAL.
REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
Hospital:					
Panama Canal employees.....	440	95	1	36	308
Panama Railroad employees.....	181	13	.....	5	163
Panama Government-pay cases.....	5	.....	.....	.....	5
Other pay cases.....	566	354	.....	71	141
Charity cases.....	85	23	.....	7	55
Total.....	1,277	485	1	119	672
Asylum:					
Panama Canal employees.....	15	.....	.....	4	11
Panama Railroad employees.....	4	.....	.....	.....	4
Panama Government-pay cases.....	203	.....	2	26	175
Other pay cases.....	20	10	.....	4	6
Charity cases.....	57	4	.....	4	49
Total.....	299	14	2	38	245
Grand total.....	1,576	499	3	157	917
Soldiers.....	225	225	.....	.....	.....
Chronics.....	31	.....	.....	.....	31
Cripples.....	53	.....	.....	11	42

REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Amer- ican.	Other white.	Black.
Hospital:				
Panama Canal employees.....	5,714	983	428	4,303
Panama Railroad employees.....	2,492	127	37	2,323
Panama Government-pay cases.....	33	.....	.....	33
Other pay cases.....	5,438	3,211	660	1,567
Charity cases.....	1,254	161	57	1,036
Total.....	14,931	4,482	1,182	9,267
Asylum:				
Panama Canal employees.....	456	.....	115	341
Panama Railroad employees.....	101	.....	.....	101
Panama Government-pay cases.....	5,963	52	765	5,151
Other pay cases.....	423	185	92	146
Charity cases.....	1,681	124	124	1,433
Total.....	8,629	361	1,096	7,172
Grand total.....	23,560	4,843	2,278	16,439
Soldiers.....	2,429	2,429	.....	.....
Chronics.....	899	.....	.....	899
Cripples.....	1,617	.....	329	1,288

Average cost of subsistence per patient per day, \$0.21338.

TABLE XIII.—ANCON HOSPITAL—Continued.

WARD LABORATORY REPORT.

Blood examinations, total number.....	639
Estivoautumnal.....	28
Tertian.....	8
Spirilla of relapsin fever.....	1
Differential counts.....	34
Hemoglobelin estimations.....	87
Leucocyte counts.....	88
Red blood counts.....	3
School examinations, total number.....	561
Ameba.....	2
Ascaris lumbroicoides.....	10
Cercomonas intestinalis.....	5
Ciliated monads.....	30
Entameba (hystolitica and tetragena).....	10
Guaiaac tests.....	5
Pus and blood.....	29
Strongloides.....	23
Tenia saginata dispar (ova).....	1
Tricocephalus dispar.....	26
Uncinaria (ova).....	46
Urine examinations, total number.....	1,804
Albumen.....	348
Bile.....	10
Casta.....	315
Ciliated monads.....	1
Epithelia.....	607
Guaiaac tests.....	1
Hemin crystals.....	4
Acetone.....	7
Indicon.....	116
Pus and blood.....	492
Sugar — Pos. 5, Neg. 29.....	34
Sputum examinations, total number.....	285
Positive for tubercle bacilli.....	36
Smear examinations, total number.....	97
Urethral.....	26
Vaginal.....	4
Eye.....	3
Spinal fluid.....	7

TABLE XIII.—ANCON HOSPITAL—Continued.

SURGICAL OPERATIONS PERFORMED.

	Number.	Died.
Amputations:		
Forearm.....	1	.....
Thigh.....	1	1
Digits, multiple.....	1	.....
Operations on bones:		
Ostectomy.....	3	.....
Wiring of fractures, simple.....	3	.....
Mayo bunion.....	2	.....
Arthrotomy of knee.....	2	.....
Adenectomy:		
Cervical.....	3	.....
Inguinal, single.....	13	.....
Inguinal, double.....	2	.....
Femoral.....	1	.....
Herniotomy:		
Inguinal, single.....	6	.....
Inguinal, double.....	3	.....
Genito-urinary system:		
Nephropexy.....	2	.....
Uterotomy.....	1	.....
Varicocele, radical cure.....	1	.....
Hydrocele, double, radical cure.....	1	.....
Epididymotomy.....	9	.....
Amputation of scrotum.....	1	.....
Curetage uteri.....	2	.....
Perineoplasty.....	1	.....
Trachelorrhaphy.....	1	.....
Obstetrical:		
Cesarian section, abdominal.....	1	.....
Accouchment force.....	1	.....
Version.....	1	.....
Perineorrhaphy.....	2	.....
Rectum:		
Hemorrhoids.....	9	.....
General:		
Tenorrhaphy.....	1	.....
Excision of surface neoplasms.....	5	.....
Plastic operation for congenital defect.....	1	.....
Laparotomy:		
For general peritonitis.....	1	.....
For tuberculous peritonitis.....	1	1
Exploratory.....	1	1
Pylorotomy.....	3	.....
Gastro-enterostomy.....	1	.....
Appendectomy.....	5	.....
Supravaginal hysterectomy.....	1	.....
Hysteromyomectomy.....	4	.....
Suspensio-uteri.....	5	.....
Minor operations, various.....	95	1 2

1 1 streptococcus septicaemia; 1 carbuncle.

TABLE XIII.—ANCON HOSPITAL—Continued.

OPERATIONS, EYE AND EAR DEPARTMENT.

Turbinectomy.....	1
Minor throat.....	1
Adenoidectomy.....	13
Tonsillectomy.....	18
Minor eye.....	3
Mastoidectomy.....	3
Frontal sinusotomy.....	1
Pterygium excision.....	5
Schalazion.....	1
Advancement.....	1
Expression.....	1
Removal foreign body from nose.....	1
Submucous resection.....	5
	<hr/>
Refractions.....	54
	130

OUT-PATIENT DEPARTMENT.

	Total visits.	New cases.	Pay cases.	Prescrip- tions.
Medical clinic.....	335	232	49	303
Surgical clinic.....	251	134	13	51
Eye and ear clinic.....	668	277	20	335
Total.....	<hr/> 1, 254	<hr/> 643	<hr/> 82	<hr/> 689

MONTHLY VACCINATION REPORT.

Number of adults vaccinated.....	62
Number of "takes".....	9
Number of school children vaccinated.....	0

REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations:		
Blood cultures.....		22
Throat cultures.....		40
Urines.....		17
Stools.....		8
Sputum.....		5
Pathological fluids, exudates, etc.....		16
Wassermann reactions.....		762
Leper suspects.....		5
Agglutination reactions.....		1
Preparations of salvarzanized blood serum.....		3
Vaccine points manufactured.....		3, 400
Blood for trypanosomes—		
Positive.....	4	
Negative.....	16	
	<hr/>	20
Gonococcus.....		1
Animal inoculations.....		3
Dairy milk from Panama, bacteriological counts.....		37
Dairy milk from Corozal farm, bacteriological counts.....		30
Milk sediments.....		17
Bacteriological examination of milk.....		6
Dark field examination for syphilis—		
Positive.....	1	
Negative.....	4	
	<hr/>	5
Dark field examination for yaws, positive.....		1
Miscellaneous.....		5

TABLE XIII.—ANCON HOSPITAL—Continued.

REPORT OF BOARD OF HEALTH LABORATORY—Continued.

Chemical examinations:		
Milk from private dairies supplying cities of Panama and Colon.....	4	
Milk, for physiologist.....	1	
Mothers' milk.....	6	
Urines.....	8	
Tallow.....	1	
Butyric acid tests on spinal fluids.....	7	
Surgical tissues neoplasms reported.....	31	
Autopsies performed.....	20	
Animals autopsied.....	13	
Pathological tissues prepared, paraffin.....	332	
Rats examined:		
<i>Mus musculus</i>	442	
<i>Mus norvegicus</i>	1,233	
<i>Mus alexandrinus</i>	14	
<i>Mus rattus</i>	139	
	1,858	
Bodies embalmed.....	7	
Interments at Corozal.....	13	
Cremations.....	15	
Bodies shipped to Mount Hope.....	2	

COROZAL HOSPITAL.

STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS.

COMMITMENTS.

	Male.	Female.
From Canal Zone:		
First admission.....	6	2
Retransfer from Ancon Hospital.....	¹ 1	
From Panama Government:		
First admission.....	5	3
Fifth admission.....	1	
Retransfer from Ancon Hospital.....	¹ 1	¹ 1
Total.....	14	6

¹ Had been transferred to Ancon Hospital for surgical treatment.

DISCHARGES.

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Barbadoes.....	1					
Jamaica.....		1		1		¹ 1
Japan.....	1					
Panama.....		1	1		¹ 5	
United States.....			² 1		² 5	
Total.....	2	2	2	1	10	1

¹ Transferred to Ancon Hospital for surgical treatment.² Deported to United States (through military authorities).

TABLE XIII.—ANCON HOSPITAL—Continued.

DEATHS.

Medical diagnosis.	Mental diagnosis.	Male.	Female.
Carbuncle; asthenia (post operative).	Manic depressive psychosis; manic phase.	1	1
Infective psychosis; dysentery, bacillary.	Infective exhaustive psychosis.		1
Dementia praecox (sudden death).	Dementia praecox, paranoid.	1	
Cerebral syphilis; anemia; exhaustion.	General paralysis of the insane.	1	

¹ Died in Ancon Hospital.

TABLE XIV.—COLON HOSPITAL.

NATIONALITY.

	White American.	White foreign.	Black.	Total.
Panama Canal employees.....	12	5	25	42
Panama railroad employees.....	7		27	34
Panama pay.....	1		13	14
Other pay.....	32	10	11	53
Charity cases.....	2		3	5
Total.....	54	15	79	148

Cost of subsistence per patient per day, 30 cents.

LABORATORY REPORT.

Blood examinations.....	45
Estivo-autumnal.....	2
Tertian.....	2
White blood counts.....	9
Hemoglobin.....	9
Differential counts.....	6
Stool examinations.....	18
Blood.....	1
Pus.....	2
Strongyloides.....	2
Uncinaria.....	4
Tricocephalus dispar.....	1
Ciliated monads (trichomonas hominis).....	5
Urine examinations.....	97
Albumen.....	15
Casts.....	10
Epithelia.....	45
Pus.....	18
Blood.....	2
Indican.....	2
Sugar.....	4
Triple phosphates.....	7
Sputum examinations.....	12
Smear examinations.....	4
Gonorrhea.....	2
Vaginal.....	2

TABLE XIV.—COLON HOSPITAL—Continued.

SURGICAL OPERATIONS..

Adenectomy:	
Inguinal, single.....	1
Femoral.....	1
Herniotomy:	
Inguinal, single.....	4
Combined.....	1
Genito-urinary tract:	
Urethrotomy, internal.....	1
Varicocele, radical cure.....	1
Hydrocele, single, radical cure.....	1
Epididymotomy.....	1
Curetage uteri.....	1
Circumcision.....	1
Thorax:	
Thoracotomy.....	1
Rectum:	
Hemorrhoids, radical cure.....	2
General:	
Extensive injuries to soft parts, operation for.....	2
Laparotomy:	
Gastro-enterostomy.....	1
Appendectomy.....	10
Appendectomy, with local peritonitis.....	1
Cholecystectomy.....	1
Pan-hysterectomy.....	3
Myomectomy.....	1
Suspensio-uteri.....	1
Removal of Jackson's membrane.....	1
Removal of large cyst of mesentery.....	1
Repair of penetrating stab wound of stomach, diaphragm, liver, and pleura.....	1
Minor operations—	
Various.....	4
Various (dispensary).....	124

TABLE XV.—PALO SECO LEPER ASYLUM.

NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Panama Canal employees.....		1				1
Panama R. R. employees.....						
Pay cases.....	2	34			2	34
Charity cases.....	2	18			2	18
Total.....	4	53			4	53

Cost of subsistence, per patient, per day, 27 cents.

TABLE XVI.—SANTO TOMAS H SPITAL.

	Remain- ing Mar. 1.	Admit- ted.	Dis- charged.	Died.	Remain- ing Mar. 31.
Pay cases.....	35	56	69	2	20
Charity cases.....	430	779	739	77	393
Total.....	465	835	808	79	413

Average number of patients constantly sick.....	445
Total number of days treatment.....	13,803
Average number of days treatment for each patient.....	11

NATIONALITY.

Class.	Number treated.	Americans.		Other nations.	
		White.	Black.	White.	Black.
Pay cases.....	91	3	.....	38	50
Charity cases.....	1,209	7	.....	118	1,084
Total.....	1,300	10	.....	156	1,134

DISPENSARY REPORT.

Class.	White.	Black.	Total.
Natives.....	25	660	685
Foreigners.....	46	396	442
Total.....	71	1,056	1,127

DISEASES TREATED.

Malaria.....	63
Measles.....	3
Diphtheria and croup.....	1
Dysentery.....	10
Erysipelas.....	3
Other epidemic diseases.....	3
Purulent infection and septicemia.....	7
Pellagra.....	3
Beriberi.....	1
Tuberculosis of the lungs.....	16
Tuberculous meningitis.....	1
Abdominal tuberculosis.....	1
Pott's disease.....	1
Tuberculosis of other organs.....	1
Syphilis.....	45
Soft chancre.....	14
Gonococcus infection.....	48
Cancer and other malignant tumors of the female genital organs.....	2
Other general diseases.....	1
Alcoholism.....	15

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

Other chronic poisoning.....	1
Other diseases of the spinal cord.....	1
Cerebral hemorrhage.....	1
Paralysis without specified cause.....	3
Other forms of mental alienation.....	6
Epilepsy.....	1
Hysteria.....	7
Neuralgia and neuritis.....	1
Other diseases of the nervous system.....	3
Other diseases of the eyes and annexa.....	10
Organic heart disease.....	8
Diseases of the arteries.....	4
Diseases of the veins.....	7
Diseases of the lymphatic system.....	11
Hemorrhage.....	2
Chronic bronchitis.....	11
Broncho pneumonia.....	1
Pneumonia.....	5
Pleurisy.....	5
Diseases of the pharynx.....	13
Diarrhea and enteritis (under two years).....	5
Diarrhea and enteritis (two years and over).....	4
Ankylostomiasis.....	40
Appendicitis and typhlitis.....	4
Hernias, intestinal obstructions.....	11
Diseases of the anus and fecal fistulas.....	7
Other diseases of the intestines.....	1
Other diseases of the liver.....	3
Simple peritonitis.....	1
Bright's disease.....	26
Diseases of the bladder.....	1
Diseases of the urethra.....	7
Nonvenereal diseases of the male genital organs.....	12
Uterine hemorrhage.....	4
Uterine tumor (noncancerous).....	7
Metritis.....	13
Other diseases of the uterus.....	11
Salpingitis and other diseases of the female genital organs.....	10
Normal labor.....	73
Accidents of pregnancy.....	21
Puerperal septicemia.....	1
Gangrene.....	3
Furuncle.....	3
Acute abscess.....	14
Other diseases of the skin.....	42
Diseases of the bones.....	2
Diseases of the joints.....	2
Congenital malformations.....	4
Nurslings discharged from hospital without disease.....	72
Other diseases peculiar to early infancy.....	1
Senility.....	1
Other suicides.....	1
Other acute poisonings.....	3
Burns.....	1
Traumatism by firearms.....	10
Traumatism by cutting or piercing instruments.....	2
Fractures.....	9
Other external violence.....	1
Ill-defined organic disease.....	1
Diseases not specified or ill defined.....	1
No disease.....	33
Total.....	808

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

SURGICAL OPERATIONS.

	Number.	Died.
Amputation digits, multiple.....	3	.....
Adenectomy:		
Cervical.....	3	.....
Inguinal—		
Single.....	5	.....
Double.....	1	.....
Herniotomy:		
Inguinal, single.....	7	.....
Femoral.....	1	.....
Strangulated.....	1	.....
Urethrotomy:		
Extranal.....	2	.....
Internal.....	2	.....
Hydrocele, single, radical cure.....	3	.....
Epididymotomy.....	1	.....
Curetage uteri.....	9	.....
Perineoplastic.....	2	.....
Thoracotomy.....	1	.....
Excision of breast.....	1	1
Hemorrhoids, radical cure.....	5	.....
Excision of surface neoplasm.....	3	.....
Plastic operation for severe injuries.....	2	.....
Plastic operation for effects of disease.....	23	.....
Skin graft.....	7	.....
Laparotomy for intestinal obstruction.....	1	1
Laparotomy, exploratory.....	1	.....
Appendectomy.....	4	.....
Appendectomy with local peritonitis.....	2	.....
Cholecystomy.....	1	.....
Pan-hysterectomy.....	7	.....
Supravaginal hysterectomy.....	1	.....
Myomectomy.....	1	.....
Salpingectomy:		
Single.....	1	.....
Double.....	1	.....
Salpingo-oophorectomy.....	10	.....
Ovarian cystectomy.....	1	1
Oophorectomy.....	1	.....
Suspensio-uteri.....	11	.....
Minor operations, various other.....	45	2
Cataract extractions.....	2	.....
Pterigium.....	2	.....
Tonsillectomy.....	7	.....
Total.....	181	5

TABLE XVII.—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of March, 1916, in the Canal Zone:

Work requests on supply department:	
Grass cutting.....	7
Screening.....	19
Miscellaneous.....	8
Work requests on engineering department.....	7
Work requests on other departments.....	3
Notices served to abate nuisances.....	1
Arrests.....	2
Convictions.....	2
Closets, inspections of.....	809
Stores, inspections of.....	42
Shops, inspections of.....	79
Garbage cans emptied.....	3,084
Closets, disinfected.....	1,243
Rat traps in use.....	525
Adult anopheles caught.....	3,932
Adult culices caught.....	5,840
Stegomyia destroyed.....	31
Larvacide used..... gallons.....	561
Crude oil used..... do.....	6,239
Kerosene used..... do.....	297
Rats destroyed.....	433

SUMMARY OF ROUTINE WORK DONE BY PANAMA HEALTH OFFICE.

Mosquito, rats, and fly work:	
Linear feet of ditches cleaned and maintained.....	41,226
Linear feet of new ditches dug.....	0
Number of cubic yards of earth used in filling.....	0
Gallons of larvacide used.....	350
Gallons of crude oil used.....	1,055
Square yards of pools oiled.....	63,555
Water containers treated.....	11,528
Mosquito-breeding places found (stegomyia 124).....	231
Fly-breeding places found.....	218
Flies trapped, quarts (13,000 per quart).....	0
Number of rats killed.....	1,371
Number of room disinfections made.....	16
Garbage collection:	
Number of loads of garbage removed to dump.....	4,808
Number of cubic yards of garbage removed to dump.....	9,864
Total number of cans of garbage emptied.....	41,997
Buildings:	
Number of buildings inspected.....	5,875
Number of plans for new buildings approved.....	24
Number of permits issued for repairs to old buildings.....	94
Total number of building permits issued.....	118
Number of buildings condemned.....	27
Number of buildings demolished (stables, 0).....	3
Number of stables condemned.....	0
Street cleaning:	
Average number of square yards of streets cleaned daily.....	600,000
Average number of square yards sprinkled daily.....	90,000
Number of private properties cleaned.....	7
Number of notices served and nuisances abated.....	356

TABLE XVII.—SANITATION—Continued.

MONTHLY WORK REPORT FOR COLON AND CRISTOBAL AND MOUNT HOPE.

Sanitation, Colon, general:

Square yards street cleaned.....	4,200,704
Square yards street sprinkled.....	608,000
Square yards alleys maintained.....	702,000
Number of private properties cleaned.....	716
Number of rats caught.....	269
Loads of yard garbage disposed of.....	673
Number of cans, garbage (cubic yards, 2,395).....	67,616

Colon dump maintained:

Linear yards ditches maintained.....	785
Acres of vegetation removed—	

Colon.....	10
Wireless station.....	10
Panama..... properties, Colon.....	50

Parkway and E Street maintained.

Square yards oiled.....	59,425
Number of receptacles treated.....	50,740
Number of mosquito-breeding places destroyed.....	2
Number of fly-breeding places destroyed.....	31
Number of buildings inspected.....	10,380
Gallons of larvacide used in Colon.....	184
Gallons of crude oil used in Colon.....	624
Number of nuisances abated.....	361

Building, Colon:

Number of building plans approved.....	9
Number of permits issued.....	17
Number of permits issued for repairs.....	45
Number of bills collected.....	102

Sewers, Colon:

Number of new connections made during the month.....	17
Total number of connections made to date.....	1,279
Number of houses in which connections were made.....	7
Outstanding permits.....	80

Sanitation, Cristobal:

Number of cans, garbage (cubic yards, 713).....	14,275
Loads of yard garbage handled.....	122
Square yards oiled.....	7,400
Number of receptacles treated.....	7,290
Number of mosquito-breeding places destroyed.....	1
Number of fly-breeding places destroyed.....	14
Gallons of crude oil used.....	104
Gallons of larvacide used.....	33
Number of buildings inspected.....	1,140
Number of nuisances abated.....	39

Sanitation, Mount Hope:

Number of cans, garbage (185 cubic yards).....	1,830
Square yards oiled.....	69,800
Number of receptacles treated.....	12,500
Number of mosquito-breeding places destroyed.....	40
Number of fly-breeding places destroyed.....	1
Number of mosquitoes caught on barracks—	
Anopheles.....	420
Culex.....	116
Number of mosquitoes caught in boats—	
Anopheles.....	73
Culex.....	18
Gallons larvacide used.....	121
Gallons crude oil used.....	277.96
Mount Hope Cemetery maintained.....	
Linear yards of ditches constructed.....	837
Linear yards of ditches maintained.....	2,635
Square yards of vegetation removed.....	168,765
Number of burials during month.....	36

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.

Number of vessels inspected and passed.....	132
Number of vessels held in quarantine.....	19
Total number of vessels entered.....	151
Number of special inspections made to enforce compliance with anti-plague and mosquito breeding regulations.....	90
Number of vessels fumigated on arrival.....	16
Number of vessels fumigated on departure.....	16
Number of crew examined.....	9,547
Number of passengers examined.....	4,066
	13,613
Number of supplementary inspections.....	2,688
Number of stowaways inspected.....	5
Number of persons vaccinated at ports of arrival because of compulsory vaccination law.....	311
Number of persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	1,388
Number of persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	537
Number of persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,814
Total number of persons held under observation.....	2,351
Total number of persons landed from foreign ports:	
Cabin.....	1,756
Steerage.....	1,151
	2,907
Total number of persons embarked for foreign ports:	
Cabin.....	1,910
Steerage.....	1,378
	3,288
Total number of persons arriving from coast towns on small launches and sailing craft.....	1,666
Total number of persons sailing for coast towns on small launches and sailing craft.....	1,764
Apparent decrease for month from coast towns.....	98
Apparent decrease for month from foreign ports:	
Cabin.....	154
Steerage.....	227
Net decrease for month.....	381
Number of persons rejected and deported.....	15
Number of bills of health issued or viséed.....	121
Number of inspections of docks.....	24
Number of inspections of vessels at docks.....	116
Total number of persons landed.....	4,573
Less number for Pacific ports.....	199
Total number of persons sailing.....	4,374
Total apparent decrease for month.....	5,052
	678

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL—Continued.

IMMIGRATION REPORT FOR COLON AND CRISTOBAL.

From—	Cabin.	Steerage.
Europe.....	8	2
United States.....	568	249
Jamaica and West Indies.....	118	238
Venezuela.....	20	3
Colombia.....	126	137
Cuba.....	65	10
Costa Rica.....	343	30
Bocas del Toro.....	45	98
Coast towns.....		198
	1,293	965
Grand total.....		2,258
Men.....		917
Women.....		622
Children.....		211
United States troops.....		310
Unclassified.....		198
		2,258

QUARANTINE—BOCAS DEL TORO.

Vessels inspected and passed.....	17
Crew inspected and passed.....	1,116
Passengers inspected and passed.....	229
Passengers in transit, inspected and passed.....	412

TABLE XIX.—STATEMENT OF QUININE ISSUED.

Quinine sulphate (kilos).....	4.25
Pounds avoirdupois.....	9.37

TABLE XX.—PERSONNEL REPORT.

	March, 1916.			February, 1916— total.	March, 1915— total.
	Gold employees.	Silver employees.	Total employees.		
Chief health office.....	4		4	4	3
Medical storehouse.....	4	4	8	8	8
Quarantine division.....	9	34	43	41	40
Health office:					
Panama.....	11	139	150	152	158
Colon ¹	10	157	167	172	115
Ancon Hospital.....	118	245	363	349	380
Colon Hospital.....	18	25	43	39	36
Santo Tomas Hospital.....	6		6	5	6
Palo Seco Leper Asylum.....	2	22	24	23	21
Zone Sanitation.....	7	107	114	112	112
Hospital Farm, Corozal.....	2	56	58	55	52
Dispensaries:					
Balboa.....	6	2	8	6	8
Corozal.....					4
Gamboa.....	1		1	1	1
Gatun.....	2	2	4	4	4
Naos Island.....					1
Paraiso.....	2	2	4	4	6
Pedro Miguel.....	2	1	3	3	4
Total.....	204	796	1,000	978	959

¹ Includes employees at Cristobal and Mount Hope.



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